

LOCUS	AF114024	357 bp	mRNA	INV	27-JAN-2000
DEFINITION	Buthus martensii neurotoxin P01 (P01) mRNA, complete cds.				

VERSION AF114024.1 GI:6690265

SOURCE Chinese scorpion.

Eukaryota; Metazoa; Arthropoda; Chelicerata; Arachnida; Scorpiones;  
Buthoidea; Buthidae; Buthus.

AUTHORS Zhu, S.-Y., Zeng, X.-C., Li, W.-X. and Jiang, D.-H.

JOURNAL Chin. Sci. Bull. 44 (21), 2295-2299 (1999)

AUTHORS     Zhu, S.-Y., Zeng, X.-C., Li, W.-X. and Jiang, D.-H.

JOURNAL Submitted (14-DEC-1998) Virology, Life Science, Luojia Mountain,  
Wuhan, Hubei 430072, China

```
source      1. .357
```

```
/organism="Buthus martensii"  
/db_xref="taxon:34649"  
/tissue_type="venom gland"  
/note="synonym: Mesobuthus martensii; authority: Buthus  
martensii Karsch"
```

gene 1. .357

```
/gene="P01"
```

CDS	68. .241
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```
/gene="P01"
```

```
/function="potassium ion channel blocker"
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/codon start=1
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```
/product="neurotoxin P01"
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/protein id="AAF24057.1"
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/db xref="GI:6690266"
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```
/translation="MSRLYAIILIALVFNVIMTIIIPDMKVEAATCEDCPEHCATQNAR  
AKCDNDPKCVCEPK"
```

BASE COUNT	156 a	68 c	60 g	73 t
ORIGIN				

Quality: 110.00                      Length: 57

Ratio:	2.444	Zengen:	57
		Gaps:	3

Percent Similarity: 78.947      Percent Identity: 43.860

US-09-599-416-2 x AF114024 ..

Align seg 1/1 to: AF114024 from: 1 to: 357

1 MetSerArgIlePheThrIleIleLeuIleValPheAlaLeuAsnIleIl 17  
| | | | | : : : : : | | | | | : : : : : | : : : |  
68 ATGAGTCGACTTTATGCAATCATCTTAATTGCTCTTGTCTTCAATGTGAT 117

```

17 eIleSer...LeuSerAsnPheLysValGluAlaAlaGlnCysTyrSerS 33
|:::  ::  :::::|||||||  ||  :
118 TATGACGATTATACCCGATATGAAAGTAGAGGCTGCTACCTGT.....G 161

33 erAspCysArgValLysCysAlaAlaMetGlyPheAsnSerGlyLysCys 49
::|||||  |||||:~::~  ::::  |||||
162 AAGATTGCCCCGAGCACTGTGCCACACAGAATGCCCGAGCA...AAATGC 208

50 IleAsnSerLysCysLysCys 56
|||:~:|||||  |||
209 GATAATGACAAATGCGTATGT 229

```